

NARRATIVE REPORT  
UPPER MISSISSIPPI RIVER NATIONAL WILDLIFE REFUGE  
Savanna District  
-  
FISCAL YEAR 1975  
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7/1/74 to 9/27/74

United States Department of the Interior  
Fish and Wildlife Service  
Bureau of Sport Fisheries and Wildlife  
Savanna, Illinois  
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## I. GENERAL

Factors affecting habitat conditions on the river frequently reached extremes in one form or another and rarely settled into that theoretical state known as "normal". Precipitation was below normal keeping river levels below normal during the first three quarters of the year. In fact the level of Pool #13 reached an all time low during July. Growth of submergents occurred in Spring Lake and Pool #13, the dominant plant being sago pondweed which provided food for migratory waterfowl during the fall. Emergents such as lotus and sagittaria were abundant and provided adequate waterfowl brood habitat. Beds of lotus expanded noticeably probably due to both low river levels and siltation. Moist soil plants were late in beginning growth on mud flats and due to an early frost few plants matured. Refuge crops were seeded late due to flooding and resulting yield was below normal. In fact some crops made no yield due to an early frost. Low river levels during the fall migration provided many attractive loafing areas for waterfowl.

During the winter river levels remained below normal. Backwaters began freezing over about mid-November and the main channel was ice covered the second week of December. A combination of factors including low river levels, siltation of sloughs and backwaters and cold weather during late winter contributed to some winter kill of fish. The main channel remained ice covered until the first week of March and by the end of the month most water areas were ice free.

The river began its annual spring rise the second week of April and crested 5.8 feet above flood stage at Dubuque on May 6. Three days later the river crested at 590.85 m.s.l. at Savanna which was the third highest crest on record for this area. The high water remained until the end of July which meant that for a period of over three months river levels well above normal were maintained. Habitat for ground nesting birds and mammals was non-existent during much of this period. Also development of aquatic and upland vegetation was delayed beyond normal.

The upper end of Spring Lake was pumped down in July in an effort to allow production of natural waterfowl foods. In spite of the lateness of this effort good stands of chufa developed on exposed mud flats and were slowly flooded during the fall. The area proved attractive during the fall migration as evidenced by the fact that the peak duck population exceeded 82,000 birds. Over the past seven years fall waterfowl use of the area has steadily increased. It is difficult to pinpoint reasons for this but water-level management and the fact the area is closed during the hunting season are considered key factors.



During the spring the area was flooded by high water. The lower cross dike was inundated and some wave action damage occurred on the west dike. These high water conditions provided favorable fish reproduction habitat and a massive fish run and resulting fish hatch were observed. As the water level receded the fish left the area and by the end of May the water level was being held at the approved management level.

At Pleasant Creek the Bonnie Lake level was held high as possible to provide waterfowl brood habitat. This lake proved attractive to wood ducks during the summer and early fall. Both Golden and Flat Lakes dikes have washouts and thus water levels fluctuate with the river. Low river levels exposed mud flats on both lakes where excellent stands of chufa and smartweed developed. However, the river remained low during the fall and thus the moist soil plants remained unflooded and unavailable to migratory waterfowl. During the spring and early summer the Pleasant Creek impoundments remained flooded. At the end of the period little or no aquatic or upland vegetation had developed due to high water.

Siltation continues as a major factor affecting refuge habitat conditions. Many backwater sloughs and especially lakes are silting in and as a result the shallow water can no longer support fish during the winter months. In some cases no fishery habitat remains as some sloughs and lakes have been converted to mud flats and upland. In other cases it appears that deep open water is being converted to a marshland type, however, as the process continues the marshland type is lost. Also it appears that siltation is aiding the expansion of lotus beds. In some areas the beds have become so extensive and monotypic that their value to wildlife is questionable. As siltation continues habitat conditions will change and most of these changes would now appear to be detrimental to wildlife. At present, there is no way that we are able to remedy the detrimental effects of siltation once it has occurred.



## II. WILDLIFE

### A. Migratory Birds.

Ducks: Waterfowl production on the district was considered average with approximately 2,940 ducks raised to flight. Species produced included wood duck, mallard, blue-winged teal and hooded merganser. Brood habitat was adequate throughout most of the district.

During August and early September migrating waterfowl arrived on the district. The early migrants consisted primarily of teal and wood ducks. By the second week of September most species of puddle ducks were observed in the area. Diving ducks did not arrive in any number until mid-October. Waterfowl numbers increased rapidly and reached the fall peak population November 11. Waterfowl numbers then dwindled just as rapidly and by the end of November only a few birds remained.

Fall waterfowl use of the Spring Lake Closed Area has increased dramatically over the past seven years. During 1967-68 the upper end of Spring Lake was diked and a water control structure with a pump was constructed. This gave us the capability to drawdown approximately 700 acres and promote the growth of moist soil plants. This vegetation is slowly flooded during the fall to make the food source available to waterfowl. This area is utilized primarily by mallards during the fall and is the species that has responded most dramatically to this area in terms of fall populations.

The lower portion of the Spring Lake Closed Area has also had a dramatic increase in waterfowl use. Most of this increase is attributed to increased scaup numbers although other species of divers are also present. The divers utilize the lake primarily as a resting area and feed at night approximately six miles to the south in Pool #13.

The increase in fall use of the area is significant. During the fall of 1968 the estimated peak population on the area was 23,000 ducks. Since then the fall peak population has steadily increased to a high of 82,000 ducks during 1974. It is difficult to speculate just what the future of this trend will be or at what level the trend may stabilize at if it does stabilize. At any rate, the area serves as an attractive resting area and due to the fact that the birds have developed night time feeding habits they receive little gunning pressure during the hunting season.

The spring migration got off to a slow start the first half of March but then large numbers of most species of ducks arrived later in the month. The peak duck population occurred March 29



at an estimated 116,000 birds. During this period a minimum of 35,000 scaup utilized the lower portion of Pool #13, just upstream from the dam, as a resting and feeding area. Spring duck populations declined until mid-May when the birds remaining represented the district breeding population.

Spring weather was favorable for nesting waterfowl, however, river levels were not and the flooding waters wiped out the first nesting effort of ground nesting ducks. Some cavity nesting birds such as wood ducks and hooded mergansers lost first nests to high water especially in the upper portions of the pools. Most birds lost nests during the late stages of laying or early stage of incubation and it is believed that most birds renested after the water levels receded. Due to the extensive flooding of the first nesting attempt we anticipate average production at best.

Geese: The resident goose population was estimated at approximately 160 birds during the summer. Of this total approximately 50 birds represented production from the spring of 1974.

The first migrant geese arrived during mid-September. The fall population of Canada Geese remained low and peaked November 30 at an estimated 720 birds. The snow goose population remained even lower with the peak population of 520 birds being observed November 2. By mid-January all geese had migrated from the district.

The spring migration of geese reached the district during the first week of February. The peak Canada goose population was an estimated 1900 birds observed March 29. This is in contrast to previous years when the peak usually reached 10,000 birds. We have no suitable explanation for this reduction in spring peak population of Canada geese. As expected the spring snow goose population remained low with only 30 birds being sighted the last week of March.

The resident breeding goose flock, estimated at 20 breeding pairs, began nesting early due to favorable weather conditions. However, most nests were lost due to flooding. Most goose nests were flooded when the birds were in the late stages of incubation and only one pair was known to renest. The renest took place on an artificial goose nest structure in Spring Lake and represented the first goose nest on an artificial structure in Spring Lake. Production was apparently reduced by the flooding as only four confirmed brood sightings were made compared to eleven sighted the previous year. Breeding populations were similar during both years.

Swans: The district receives little use by swans. During the fall migration 34 swans were observed during November and only 44 swans were observed during the spring migration.



## 2. Other Water Birds.

This category includes coots, egrets (great white and cattle), herons (great blue, green, black-crowned and yellow-crowned), bitterns (American and least), common loons, grebes (pied-billed and horned), double-crested cormorants, gulls (ring-billed, herring, Franklin and Bonaparte's) and terns (common and Caspian). It would be sufficient to say that these birds have not changed in stature since last year. Little time is spent censusing these species (except for the double-crested cormorant) aside from observations made incidental to other refuge activities. The coot, great white egret, great blue heron, green heron, pied-billed grebe, American bittern, and double-crested cormorant all nest within the district. The other birds are fairly common spring and fall migrators.

The double-crested cormorant colony which is located in two trees in Pool #13 was given a new look. In March, eight artificial platforms were installed in the trees to provide additional nesting sites. It is believed that this is the last remaining colony in Illinois and possibly the southern most nesting colony in the Mississippi flyway. The cormorants arrived at Pool #13 on April 5th and took readily to the new sites. Nesting attempts were made on five of the platforms but only three nests fledged young birds.



Natural and artificial nest sites being utilized by cormorants in Pool #13.



Historically the double-crested cormorant was a very common nester in the area with large colonies being present in the late 1940's. Up to that time nesting habitat was ideal for these birds. Since that time they have lost nearly 100% of their nesting habitat. We have now taken the initiative of trying to keep this bird a common nester. The installation of the platforms made a net increase of nests in the colony from 11 to 12. The colony produced a total of 26 young this year with some of the nests producing three birds. We hope to install similar structures in coming years.

The fate of the colony is questionable. The present nesting habitat consists of only two large dead trees located in Pool #13 in an area inaccessible to large equipment. We feel the most effective plan would be to place poles in the pool near the existing colony but this appears impossible. An alternative plan would be to place poles and platforms in an area that was a former colony site. This site would be accessible during the winter months for the necessary equipment. In spite of funding limitations some effort should be made to retain and improve the colony.

### 3. Shorebirds.

Population figures are kept on these species but no special effort is made to census them because of the time involved. Observations are made while performing other refuge activities.

### 4. Mourning Dove.

The dove is present on the district all year long. Some nesting occurs but is limited primarily to our sand prairie areas. Fall migration build-ups usually occur during the last week in August and are sometimes quite spectacular. However, this year as in the past two years we have not had large numbers of doves.

### B. Upland Game Birds.

The ring-necked pheasant, bob-white quail, and gray partridge are residents on the district. These populations are extremely small and although we do have some production for all species, most of the birds move in and out of the refuge from surrounding farm lands.

### C. Big Game Animals.

The white-tailed deer is our only big game animal. The oak ridges which are very common on the river islands provide most of the habitat. Population figures vary throughout the year but



we estimate a peak herd size of 300 animals. Movement in and out of the refuge from surrounding private land is very common, especially during spring highwater which moves most of the deer off the refuge.

D. Fur Animals, Predators, Rodents and Other Mammals.

With river bottoms comprising most of the refuge, fur bearing animals which inhabit water areas are quite abundant. Fall muskrat house counts indicated a population of 42,500 muskrats which is a decline from last year. Fall beaver lodge counts indicated a population of 2400 beaver. This population has been steadily rising due to a closed beaver season in Illinois.

The abundance of beaver is actually having a positive effect on the river bottoms. The loss of waterfowl and fish habitat due to siltation and dredging is becoming quite staggering. The damming of sloughs and lakes by beaver creates higher and more stable water levels which is beneficial to habitat values.

The decline of muskrats during the last few years is related to a number of factors. High fur prices have put more trappers in the field and they are trapping for longer periods of time. Previously one trapper would work an area and move out and that area would not be retrapped until the following season. Now trappers will work an area and when they leave other trappers will move in and retrap the area. This high trapping pressure nearly eliminates muskrats from some areas.

Overtrapping is indeed a factor to be concerned with, however, the varied habitat on the refuge makes it almost impossible to overtrap the whole population. Natural factors, including flooding, low water, and siltation are the major culprits in the decline of this once superabundant animal. Record high spring floods were unusual until about ten years ago. Since 1965, high level floods have occurred almost every other year. This high water usually starts the last of March and continues until mid-May. During this period of time muskrats should have their first litter but it gets wiped out almost completely. Also the past three years, after spring high water, we had a low water period that dried up most shallow water areas and marshes which are important to the muskrat.

Lastly but most important, is the siltation problem. Marshes, sloughs and lakes which used to be ideal habitat for the muskrat no longer exist. They have filled in to the extent that they are now upland sites. This reduction in muskrat habitat is reducing the population.

Other fur animal populations, including raccoon, red fox, striped skunk and opossum are on the increase. The raccoon population is almost at an epidemic stage. Although they are hunted and trapped



extensively, their populations continue to increase.

Mink, otter, grey fox, cottontail rabbit, squirrels and woodchuck seem to be holding at a stable level.

The coyote is increasing its numbers in the area. Five years ago, it was a rarity to hear of a coyote. Today, sightings and captures are quite common. It appears that the coyote population has increased during the past years while the fox population was at a low level due to mange. Mange has run its course in the fox population and the fox is making a good comeback.

#### E. Hawks, Eagles, Owls, Crows and Vultures.

As with many other species, we make no special effort to census these birds (except for the bald eagle) but information on these populations is gathered incidental to other refuge activities. It is always enjoyable to see an osprey, sharp-shinned hawk, Cooper's hawk, goshawk or American peregrine falcon. Although these birds are not common to this area, we usually spot all of the above birds during fall migration.

Broad-wing hawks usually migrate through the area about the 3rd week in September with their characteristic swirling "cloud" formations. Hundreds of these birds may be seen at one time.

Common nesters on the refuge include the turkey vulture, re-tailed hawk, barred owl, screech owl and great horned owl.

During Spring and Fall migrations we see goodly numbers of marsh hawks, bald eagles, sparrow hawks, rough legged hawks and short eared owls.

The common crow can be found on the refuge at all times of the year and it is a common nester. Fall migration brings the largest number of crows to the refuge.

The diversity of bird species can be appreciated by the fact that there are 255 different species included in our refuge bird list.

#### Bald Eagle

The Upper Mississippi Refuge is blessed with one of the largest wintering bald eagle populations in the contiguous United States. The Savanna District winters more birds than any other district primarily due to the fact that we have more open water. On the 11th of January we had an estimated 240 eagles on the district.

Eagle counts are taken on selected days in cooperation with the National Audubon Society and the National Wildlife Federation.

The eagles usually start arriving around mid-October with immature



birds being the first to arrive. The eagles then peak out around the 2nd week of January and are usually gone by the 2nd week of May.

While the eagles are in the area, they can be spotted anywhere along the main channel of the river. However, certain concentration areas are noticeable such as tail waters of the locks and dams, tributary streams entering the river, and power plants. All of these have one thing in common - open water where the eagles can obtain food.

A meeting was held in the Spring with Elton Fawks who is the coordinator of the Mississippi Valley Bald Eagle Survey, in relation to the buying of approximately 200 acres of bluff land by the National Wildlife Federation for the establishment of an eagle sanctuary. The land was then to be turned over to the refuge for management and protection of the bald eagle.

All parties were quite anxious to get the project rolling. However, after submitting initial recommendations in favor of the project nothing has been heard. Just what has happened, no one really seems to know.



This bald eagle was kept over night to check for any ill effects after being caught in a fox trap.

With the amount of bald eagles that are present throughout the winter, it is inevitable that something will happen to them. Each year we find a few birds that were shot or were drowned after being caught in a trap. This year we received a call from a fox trapper who had an eagle in his trap. We went out and released the bird which was lucky to have no damage done. We brought the bird back to the warehouse and kept it through the night to make sure there was nothing wrong with him. He was released the next morning with no ill effects.



#### G. Fish

Fishing is the most popular drawing attraction to the Savanna District. During FY-75, almost 330,000 people enjoyed this sport. Species most commonly fished for include channel catfish, walleye, crappie, fresh-water drum, sunfish and bullhead. The main river system including the locks and wingdam system provide ample opportunities for the walleye and channel catfish fishermen. Each year, walleyes in the 5 to 10 pound class are caught off the river.

Fall and winter fishing provides some excellent panfish catches in the backwater lakes and sloughs.

The Spring Lake area, located just south of Savanna, remains one of the hottest places for channel catfish and fresh-water drum.

Although fishing remains good at certain times of the year, it is a resource that is being hurt by large scale siltation occurring on the river. You can only assume that as we lose more and more important marsh and backwater habitat, do to siltation, that our fishery resource will also decline at a comparable rate. Spawning and rearing areas are being lost and no new areas are being created.

Every year, more and more people come to enjoy the fishery resource on the refuge, yet every year there are fewer and fewer accessible places for these people to fish.

#### H. Reptiles

No records are kept on reptiles inhabiting the district. The sand prairie area includes some species such as the Blandings turtle, six-lined race runner, western box turtle, and plains hog-nose snake which are otherwise uncommon to the refuge.

Certain species such as the bullfrog, snapping turtle, and soft-shelled turtle are avidly sought after by some sportmen for delicious meals.

Timber rattlesnakes and massasauga rattlers are present on the refuge but in limited numbers. The bluffs surrounding the refuge contain real healthy populations of timber rattlesnakes, however.

#### I. Disease

Nothing to report.



### III. REFUGE DEVELOPMENT AND MAINTENANCE

#### A. Physical Development:

No new physical development was planned or completed during the year. During the past few years there has been a lack of funds to complete needed facility maintenance. There are some areas on the District that will require sizeable investments in terms of maintenance and rehabilitation if we are to continue to produce current outputs.

The Spring Lake area is in current need of facility maintenance. The upper part of the area consists of a 700 acre marsh that is diked off from the Mississippi River. The development includes two water control structures one of which has a pump enabling us to effect drawdowns and reflooding. The primary outputs of this area include waterfowl maintenance, waterfowl production, and environmental education and wildlife observation. Currently a portion of the dike is in need of repair. During spring high water, wave action eroded the dike removing a considerable amount of material from the side of the dike. Subsequent high water periods will



Wave action damage to Spring Lake dike used for EE and water impoundment.



result in a breaching of the dike and thus a loss of water control in the marsh. This will allow a more rapid rate of siltation to occur in the marsh and of course the marsh water level will fluctuate with the river level. Proper repairs will require building the dike to its original cross section over a .5 mile distance and then to prevent recurring damage the repaired dike slope should be reveted.

Our present level of funding does not permit us to complete this needed repair. In fact, the motor for the pump was removed due to a threat of flooding and at our present level of funding we will not be able to reinstall the pump motor and purchase the electricity needed for its operation in future fiscal years.

The Pleasant Creek area located in Iowa, just south of Bellevue, is in need of rehabilitation. During this year a token amount of work was completed on one access road with funds from FY 74. The work included placing five culverts in the road and then back-filling and rocking approximately 200 feet of the road. This road is approximately 1.5 miles long and is in need of surfacing with crushed rock. The other access road of approximately 1.5 miles provides access to two water control structures that were used to control water levels in two bottom land lakes. At present the road is impassable and requires clearing and surfacing. A portion of the road serves as a dike for the lakes and near each of the controls which serve as outlets for the lakes the road is washed-out allowing the lakes to fluctuate with the river.

Heavy rains resulted in runoff that damaged the slope on the Goose Point overlook located on the southeast shore of Spring Lake. The slope was eroded in two places. Local contractor, Doty & Hoffman, donated 15 yards of fill which was placed in the eroded cuts by refuge personnel.

#### B. Plantings.

##### 1. Aquatic and Marsh Plants

Nothing to report.

##### 2. Trees and Shrubs.

Approximately 150 autumn olive were obtained from the Illinois Department of Conservation and were planted near the warehouse at Spring Lake.

##### 3. Upland Herbaceous Plants

Nothing to report.

##### 4. Cultivated Crops

Approximately 280 acres are under cultivation through either cooperative farming agreements or special use permit. Crops grown include corn, soybeans, and sorghum. During 1974



crops were seeded late due to flooding and resulting crop yields were low. An early frost occurred which killed soybean plants before a crop was produced. During the spring of 1975 water receded in time to allow seeding of crops during late May and early June. Prospects for excellent yields look good at the end of the reporting period.

C. Collections and Reciepts.

1. Seed or Other Propagules

Nothing to report.

2. Specimens

November 23 an adult bald eagle was found in Pleasant Creek. The bird had a steel trap on each foot and apparently drowned in the creek. The traps were untagged and thus we were unable to determine the identity of the trapper. The specimen was frozen and transferred to Agent Orton, Rosemont, Illinois.

D. Control of Vegetation.

Approximately 1.5 miles of access road was brushed at Pleasant Creek. We plan to maintenance spray the road thus reducing the time required to keep it clear. The primary target species of this project is silver maple which is ideally suited to the river bottoms and grows so profusely that it does block roads.

Approximately 70 acres of willow<sup>w</sup> was aerially sprayed with 2,4-D in Upper Spring Lake. A series of summer drawdowns of the unit have created conditions suitable for willow invasion. The application of chemical was delayed until July 10 due to high water levels. The treatment top-killed the willows but the parts of the plants under water at the time of spraying remained alive. During the spring of 1975 the willow produced some leaves but due to the fact the water level was held high the willow growth was not vigorous. We will continue to hold as much water in the unit as possible in an attempt to kill the willow.

E. Planned Burning.

Nothing to report.

F. Fires.

Nothing to report.

G. Commercial Development.

During the year we are requested to comment on various prpjects that are proposed for construction on the river. Usually the



projects as proposed would have detrimental effects to fish and wildlife habitat values. The following is a brief description of the more significant projects we commented on during the year.

Progress on the Fulton floodwall project continued slow but sure. We have provided numerous comments regarding the effects on fish and wildlife habitat that will result. Our involvement with the project stems from the fact that a part of the floodwall will cross a small parcel of refuge fee title land. Most of the issues regarding fish and wildlife habitat have been agreed to by the interested parties. One significant aspect of the project that may influence other such projects is that the F&WS is requiring landowners in the project to sign easements that would protect existing wetlands from draining or filling. The District Manager and personnel from Ecological Services, Rock Island, met with the landowners in the project area and obtained promises to sign such documents when funding would be provided for the project. The next step in the project is for the local citizens to vote on a bond issue.

An industrial park development was proposed for the Switzer Lake area near East Dubuque, Illinois. A meeting was held with the developer, Mr. F. Humpke, at which he discussed his plans which included dredging a barge channel from the main channel across refuge land to private land for a total distance of 1.25 miles. We indicated that the project would require certain permits and that construction on refuge land would require our approval. As far as we know the proposal is now a dead issue.

Interstate Power Company, Duguque, Iowa, inquired regarding the construction of a powerline crossing on the river located between Spring Lake Closed Area and the Elk River Closed Area. The crossing would be necessary to carry power from the proposed nuclear plant to be located south of Savanna to Interstate customers in Iowa. We informed Interstate that the proposed location would be unacceptable to us and proposed a crossing near the Savanna-Sabula bridge. Interstate agreed to look at alternative sites which is the current status of this development.

We were requested to provide comment for an environmental impact statement regarding an oil pipeline river crossing. The proposed crossing cuts through the Princeton wildlife area and then across numerous sloughs and islands before reaching the main channel and then the Illinois bank. We stated that this site would be unacceptable but that an acceptable alternative site was located just downstream. We do not know the present status of the project.

Interstate Power Company possessed a permit to construct a powerline crossing at Beaver Island, just south of Clinton. The crossing was not constructed and the permit was due to expire this year. Interstate requested an extension of the permit but when



requested that an environmental statement be prepared regarding the crossing Interstate declined and allowed the permit to expire.

Commonwealth Edison proposes to construct a barge docking facility at the upper end of Savanna Slough at Savanna. The facility will be used to move materials to the power plant construction site at Byron, Illinois. We provided recommendations for placement of dredged spoil which will be removed from Savanna Slough. The spoil is to be placed on adjacent Park Commission owned land in such a manner as to not fill existing wetlands. Construction is planned for next fiscal year.

Mr. Art Gill finally received a permit to construct a channel from Frenress Lake to a flooded gravel pit owned by Mr. Gill. The gravel pit will be developed into a marina and the channel will provide access to the river. Construction is planned for next fiscal year.

Main channel dredging was accomplished at only one site in the district this year. The site is located downstream from the Maquoketa River adjacent to Green Island. The spoil was pumped over the Green Island levee and piled up in a stand of predominantly silver maple trees. This should prove to be a stable spoil site.

Access channel dredging was also accomplished by the Corps at the Lazy River Marina located just north of Savanna. The spoil consisted of silt and was placed in open water adjacent to the channel. This placement of spoil is helping to fill in Savanna Bay and as a result is having detrimental effects on fish habitat.



#### IV. RESOURCE MANAGEMENT

##### A. Grazing

Nothing to report.

##### B. Haying

Nothing to report

##### C. Fur Harvest

Due to high fur prices, we issued 212 trapping permits this year which is an increase of 35% over the previous year. Following is a table that summarizes the season catch.

<u>Furbearer</u>	<u>No. Taken</u>	<u>Total Value</u>
Muskrat	12,335	\$31675.50
Raccoon	660	6537.00
Mink	79	596.00
Beaver	268	2066.00
Oppossum	113	100.50
Red Fox	9	209.00
Grey Fox	10	107.00
 TOTAL	 13,474	 \$41291.00

Note: These are actual figures based on returns from 85% of the trapping permittees.

This was the first year that the beaver season was open in Illinois since 1969. Due to the low price of the pelts, very few people trapped these animals. We are in the process of developing a management program for beaver in conjunction with the states of Illinois and Iowa. The program will revolve around open and closed seasons to insure that we maintain a relatively high population on the river and at the same time can control the population if it gets too high or too low.

Although there were 55 more trappers working the river this year, almost 20% less muskrats were caught than the year before. Muskrat and mink were the only 2 furbearers that had a decline in catch. Average prices for muskrat and raccoon were \$2.60 and \$10.00 respectively. These two along with fox keep going up while mink and beaver keep going down.

##### D. Timber Removal

Nothing to report.



#### E. Commercial Fishing

Commercial fishing is a way of life for many people along the Mississippi River. This activity is allowed under state regulations on the refuge except for the Spring Lake area where a refuge permit is required. Thirty-six commercial fishing permits were issued this fiscal year. Only 15 returns have been received to date and that information is summarized in the following table.

<u>Species</u>	<u>Pounds Taken</u>	<u>Value/Pound</u>
Buffalo	24271	\$0.18
Carp	10615	0.05
Freshwater drum	15560	0.15
Paddlefish	<u>2040</u>	<u>0.15</u>
TOTAL	52486	

All commercial fish except for channel catfish are allowed to be taken in the Spring Lake area.

#### F. Other Uses

One miscellaneous permit was issued for \$5.00 for the removal of two cabins that leases had been terminated on. No other new permits were granted or terminated during the period. Three permits were renewed. Permits still in effect, except cooperative farming permits, which are administered by the refuge are as follows:

Bonnett Boat Docks	\$180.00
Bowfin Yacht Club	40.00
Dubuque Farge & Fleeting	350.00
Potter Cash Farming	272.10
Simpson Building Rental	25.00

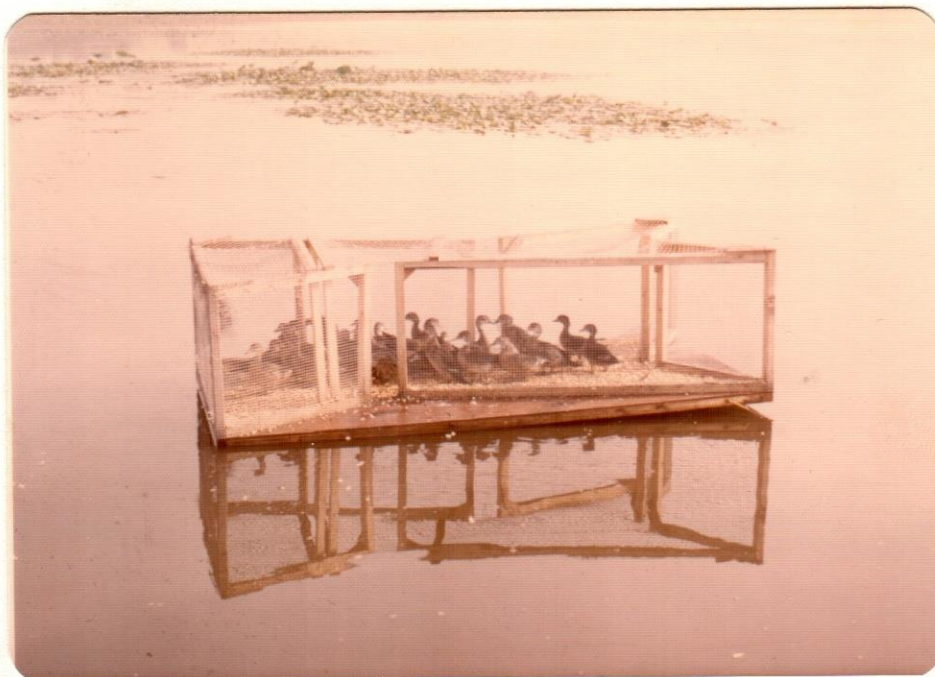


## V. FIELD INVESTIGATION OR APPLIED RESEARCH

### A. Wood duck Banding Program

A FY-75 target of 200 birds was given to the Savanna District. A total of 318 birds were banded before we quit because some of the other districts were having trouble getting their quotas.

This year was the first year that we employed a new capturing technique. Two 8' x 4' floating traps were used. One of the traps had expandable throats and the other one had fixed throats. The two traps were placed no more than 30 feet apart. The trap with expandable throats was victimized almost every night by raccoon while the trap that had fixed throats never received any raccoon predation. We are just guessing, but the fact that the raccoon couldn't enlarge this opening may have been why they didn't bother this trap. Next fiscal year we are planning on building 3 more of these traps and they all will have solid throats.



One of our floating wood duck traps showing design and catch.

In 10 days we banded 184 wood ducks out of these two traps. About 80% of these came out of the trap that wasn't being victimized by coon.

We feel that the use of these traps may be very beneficial to any station that is trapping ducks where water levels are continuously fluctuating as they do on the river.

One trap captured 33 wood ducks at one time and there was room for more. A couple of these traps could work as well as a cannon-net.



We feel that these traps have some advantages over some of the other methods employed. (1) Aside from prebaiting an area, very little grain is needed. (2) The birds are always dry, easy to catch, and easy to handle. (3) Once the traps are in place, they will work for you regardless of water level. (4) You don't have to maintain an area like you would for a cannon-net site. (5) The fixed throat design may be a coon proof system.

The one major disadvantage to these traps is that you have to visit these traps every morning and evening when they are operating.

#### B. Mourning Dove Trapping

No quota was received for mourning doves this year.

#### C. Natural Areas - Thomson Sand Area

Work was carried out this fiscal year in an attempt to get a native sand prairie area included as a natural area. The Thomson Sand area is a 200 acre remnant of native sand prairies which used to be common in northern Illinois. This area is one of the few left in Illinois and is characterized by such prairie grasses as little blue stem, Indian grass, Fall witch grass, porcupine grass, switch grass and June grass.



The prickley-pear cactus is very common on the Thomson Sand Area.

It also contains distinctive flora such as prickley pear cactus, poppy mallow, goats rue, sand primrose and hairy puccoon.

Such herpetofauna as the plains hognose snake, Blandings turtle,



Production this Spring was sharply curtailed by the third largest flood in recorded history. All of the nesting boxes are placed at an average height of 15 feet off the ground but when the Mississippi River rises 17 feet, they might as well be two feet off the ground. Needless to say, most of our boxes were flooded. The wood ducks were already into incubation and the effects this years flooding had on production will not be known until this winter when we do our survey.

Incubation was in early stages so we hope that a good renesting attempt was made by these birds.

E. Hooded Merganser Egg Collection

In the Spring of 1975, we cooperated with the Patuxent Wildlife Research Center on the collection of clutches of hooded merganser eggs for pesticide studies. Three clutches, totaling 33 eggs were collected for this study from the Pleasant Creek Unit.



western box turtle, and Illinois mud turtle are considered to be rare in this area but all are found to be present on the Thomson Sand Area.

We feel and the state of Illinois feels that this area is of considerable scientific value and should thus be protected. The recommendations and management plans are still in the mill. It is our hope that this project will be approved.

#### D. Wood Duck Nest Box Survey

The Pleasant Creek unit is being developed into an intensive study area for the placement and use of artificial wood duck nesting structures.

In past years, wood duck boxes were scattered throughout the entire district. After years and years of data collection that showed no significant structure use except in the Pleasant Creek unit, we started collecting these boxes and moving them into the Pleasant Creek unit.

These boxes are checked for use and repairs are made if needed during the winter months. The data for fiscal year 1975 has not been collected to date. Fiscal year 1974 data showed that 59 boxes were available and 28 or 47.5% of them were used. Of these 28 boxes, 16 were used by wood ducks, 8 by hooded mergansers, and 4 were used both by wood ducks and hooded mergansers.

Average hatch for wood duck clutch was 5.5 and average hatch for hooded merganser was 3.9.

Forty more boxes were installed in the Pleasant Creek unit this Spring, bringing the total available boxes to almost 100.



This box contained a clutch of 15 wood duck eggs.



## VI. PUBLIC RELATIONS

### A. Recreational Uses

The Mississippi River, is one of the greatest out-of-door playgrounds in the midwest. With our area of influence including Chicago, which is only a three hour drive away, and many other large metropolitan areas, our public use is ever increasing.

During the fiscal year, we recorded 818, 600 public use visits to the district. This figure, although seemingly quite large, is undoubtedly low. With more than 80 public access sites to the river and more being built each year it is a difficult task to try and keep track of people using the refuge.

About 30% of the visits are non-wildlife/wildlands oriented--which includes camping, picnicking, swimming, boating and water-skiing. The majority of the people come to the refuge for fishing, hunting, wildlife observation and wildlands appreciation.

### B. Refuge Participation

This year we again participated with the Thomson Eco-center in an environmental education program. The center uses our Spring Lake auto tour route as an outdoor classroom. Participation totalled 641 students. Conducted tours by refuge personnel totalled 362 students, teachers, and Audubon groups.

Our bottomland nature trail received 3040 visits and there were 6125 visits to the interpretive center which we administer in conjunction with the Mississippi Palisades State Park. Refuge personnel also presented 15 one-half hour radio programs over WCCI in Savanna. In addition, numerous programs were given to schools and civic organizations.

### C. Hunting

Game hunting of one type or another occurs from mid-August until the 1st of March. The Savanna district is split between the states of Iowa, Illinois, and a small portion of Wisconsin. Hunting seasons and regulations become quite a hodge-podge and are sometimes difficult to keep straight.

Except for three closed areas on the district, which represent only 14% of the refuge, the rest of the refuge is open to the public for hunting in accordance with state regulations. Almost 38,000 acres of the refuge is open to hunters.

Waterfowl hunting, white-tail deer hunting, and dove hunting are the three hunts which attract the largest number of hunters. The waterfowl season attracts most of the hunters. This fiscal year, 17527 hunter visits were recorded. These hunters accounted for the taking of 13805 ducks which averages out to .78 ducks/hunter for the season.



Opening weekends in Iowa and Illinois account for almost 40% of the hunters and 50% of the birds killed. After the first few days, the birds quickly adjust their habits to loafing in the closed areas and feeding early in the morning and late in the evening. They even adjust their flight patterns out of the closed areas. In cases of firing line situations, the ducks and geese will be flying low until they cross an imaginary point just before they get out of the closed area and will climb 70 to 80 yards to escape the onslaught that is waiting for them.

Although there are 38,000 acres of refuge open to hunting, 50% of the waterfowl hunters will congregate in four different areas every year. Each year the same complaints are heard and usually from the same hunters--"Where's all the ducks?", "Them damn skybusters!", "Isn't there a lot of hunters out today?"--The list goes on and on.

Methods of hunting between Iowa and Illinois are like night and day. Iowa is open to hunting with no restrictions on methods except for federal guidelines. In Illinois, on the Mississippi River in this area, you have to hunt from a blind that cannot be closer than 200 yds from the next blind. This regulation has merit over open hunting but it also has drawbacks. Blind-burning has become a common practice that is going to end up some day on a serious note. Also, the blinds are built on a first come first serve basis. What usually happens is that a hunter will be assured of having the same blind year after year because his blind is located in that area. As it is right now, all available hunting sites in the "hot" areas are taken. A fair chance is not being given to all of the people who want to enjoy this sport.

Illinois elected not to take the early teal season this year. This was the first time since the teal season has been offered that Illinois declined it. Because we did not have the season, a lot of wood ducks got to live a little longer. It seems that quite a few teal hunters think that wood ducks and blue-winged teal are the same bird.

The deer seasons in Iowa and Illinois accounted for 51 deer being taken on the refuge. Six of these fell to bow and arrow hunters. The Pleasant Creek unit in Iowa remains the top deer hunting area on the district.

#### D. Violations

Law enforcement activity on the Savanna District could be a 24 hour job with arrests being made constantly each day. This year as in past years, it has been difficult to find time to actively work law enforcement. Aside from spending time on opening weekends of seasons and trying to keep our eyes on people whenever we are working on some other project, very little actual time goes into law enforcement. The problem with law enforcement is that it takes time and that is a quantity that people in refuges have very little extra of.

Violators were processed in Federal or State court, depending upon the circumstances of the case.



E. Safety

No accidents or injuries involving Savanna District personnel occurred during the fiscal year. A safety presentation is given at each staff meeting as a refresher course on different topics. We attended an eight hour Defensive Driving Course given by the Regional Safety Officer. Safety devices such as fire extinguishers and first aid kits were installed in all vehicles and buildings.



## VII. OTHER ITEMS

At a January meeting with the Corps and various other agencies GREAT II was formed. GREAT II covers the Rock Island Corps district on the Upper Mississippi River. During the spring the various work groups were formed and meetings held to develop objectives and plans of action. We are members of three work groups including Fish and Wildlife, Dredging Requirements and Side Channel Openings. At present GREAT II has no operating funds but a budget proposal was submitted for funding during the next fiscal year. Other than organization GREAT II has accomplished little to date.



SIGNATURE PAGE

Submitted by:

Thomas D. Ottum  
(Signature)

12-6-75  
(Date)

District Manager  
(Title)

Approved, Regional Office:

Date: \_\_\_\_\_

\_\_\_\_\_  
(Signature)

Regional Refuge Supervisor



DISTRICT: SAVANNA

MONTH:

July

F.Y.

75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending: 7/6	7/13	7/20	7/27	8/3	MONTHLY TOTAL	AVERAGE
COOT	21700	500	650	650	650	650	3100	620
SWAN								
CANADA GOOSE	4585	115	135	135	135	135	655	131
WHITE FRONT								
SNOW/BLUE								
OTHER								
TOTAL GEESE	4585	115	135	135	135	135	655	131
MALLARD	51100	1100	1550	1550	1550	1550	7300	1460
BLACK								
GADWALL								
WIDGEON								
PINTAIL								
G.W. TEAL	3325	75	100	100	100	100	475	95
B.W. TEAL	18900	500	550	550	550	550	2700	540
SHOVELER								
WOOD DUCK	79800	1800	2400	2400	2400	2400	11400	2280
REDHEAD								
CANVASBACK								
RING-NECK								
SCAUP								
GOLDENEYE								
BUFFLEHEAD								
RUDDY								
OLD SQUAW								
SCOTER								
COMMON MERGANSER								
RED BR. MERGANSER								
HOODED MERGANSER	11900	260	340	340	360	360	1700	340
TOTAL DUCKS	165025	3735	4960	4960	4960	4960	23575	4715



DISTRICT: SAVANNA

MONTH: August F.Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending: 8/10	8/17	8/24	8/31	MONTHLY TOTAL	AVERAGE
COOT	18200	650	650	650	650	2600	650
SWAN							
CANADA GOOSE	4305	135	160	160	160	615	154
WHITE FRONT							
SNOW/BLUE							
OTHER							
TOTAL GEESE	4305	135	160	160	160	615	154
MALLARD	70350	1550	2100	2600	3800	10050	2513
BLACK	3150	50	100	100	200	450	113
GADWALL	140				20	20	5
WIDGEON	140				20	20	5
PINTAIL	1680	10	30	80	120	240	60
G.W. TEAL	5110	160	130	210	290	730	183
B.W. TEAL	25200	550	650	950	1450	3600	900
SHOVELER							
WOOD DUCK	76300	2600	2600	2800	2900	10900	2725
REDHEAD							
CANVASBACK							
RING-NECK							
SCAUP							
GOLDENEYE							
BUFFLEHEAD							
RUDDY							
OLD SQUAW							
SCOTER							
COMMON MERGANSER							
RED BR. MERGANSER							
HOODED MERGANSER	10640	360	360	400	400	1520	380
TOTAL DUCKS	192710	5220	5970	7140	9200	27530	6884



DISTRICT: SAVANNA

MONTH: September F.Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending: 9/7	9/14	9/21	9/28	MONTHLY TOTAL	AVERAGE
COOT	49840	650	700	1950	3820	7120	1780
SWAN							
CANADA GOOSE	7910	160	200	350	420	1130	283
WHITE FRONT							
SNOW/BLUE	595		10	30	45	85	21
OTHER							
TOTAL GEESE	9505	160	210	380	465	1215	304
MALLARD	131600	4200	4200	4600	5800	18800	4700
BLACK	9520	260	300	330	470	1360	340
GADWALL	2590	75	75	90	130	370	93
WIDGEON	5460	130	130	210	310	780	195
PINTAIL	9240	190	210	430	490	1320	330
G.W. TEAL	21630	380	560	840	1310	3090	773
B.W. TEAL	54390	1620	1810	2450	1890	7770	1943
SHOVELER	1435	30	40	60	75	205	51
WOOD DUCK	153300	3460	4500	6800	7200	21900	5475
REDHEAD							
CANVASBACK							
RING-NECK							
SCAUP							
GOLDENEYE							
BUFFLEHEAD							
RUDDY							
OLD SQUAW							
SCOTER							
COMMON MERGANSER							
RED BR. MERGANSER							
HOODED MERGANSER	11620	400	420	420	420	1660	415
TOTAL DUCKS	400785	10685	12245	16230	18095	57255	14315



DISTRICT: SAVANNA

MONTH: October F.Y. 75

WATERFOWL POPULATIONS	DAYS USE	Week ending:	10/12	10/19	10/24	11/2	MONTHLY TOTAL	AVERAGE
COOT	847280	14500	29650	24170	30205	22470	121040	24208
SWAN <i>whistling</i>	42				3	3	6	1
CANADA GOOSE	18515	465	380	630	650	520	2645	529
WHITE FRONT								
SNOW/BLUE	12635	45	140	500	550	570	1805	361
OTHER								
TOTAL GEESE	31150	510	520	1130	1200	1090	4450	870
MALLARD	737170	9700	16900	21400	24370	32940	105310	21062
BLACK	29225	660	1080	710	805	920	4175	835
GADWALL	15610	160	210	820	460	580	2230	446
WIDGEON	141330	1380	2570	7800	5210	3230	20190	4038
PINTAIL	84700	650	900	5800	2790	1960	12100	2420
G.W. TEAL	130830	1800	2150	8510	2930	3300	18690	3738
B.W. TEAL	13545	890	190	50	455	350	1935	387
SHOVELER	5390	110	170	60	140	270	770	154
WOOD DUCK	126540	5800	4730	3940	2850	760	18080	3616
REDHEAD	4060			180	160	240	580	116
CANVASBACK	5915			35	200	610	845	169
RING-NECK	3815	30	60	50	135	270	545	109
SCAUP	344750			7050	18790	23410	49250	9850
GOLDENEYE	280					40	40	8
BUFFLEHEAD	280					40	40	8
RUDDY	9030			10	120	1160	1290	258
OLD SQUAW								
SCOTER								
COMMON Merganser	140					20	20	4
RED BR. Merganser	560			10	20	50	80	16
HOODED Merganser	3290	280	90	30	20	50	470	94
TOTAL DUCKS	1656480	21460	29050	56455	59455	70220	236640	47328



DISTRICT: SAVANNA

MONTH: November F.Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending:	11/16	11/23	11/30	MONTHLY TOTAL	AVERAGE
COOT	20055	2060	670	90	45	2865	716
SWAN <i>Whistling</i>	378	18	34	1	1	54	14
CANADA GOOSE	11550	140	230	560	720	1650	413
WHITE FRONT							
SNOW/BLUE	2905	210	110	50	45	415	104
OTHER							
TOTAL GEESE	14455	350	340	610	765	2065	517
MALLARD	567385	21515	19340	21235	18965	81055	20264
BLACK	20090	830	765	570	705	2870	718
GADWALL							
WIDGEON	910		30	100		130	33
PINTAIL	560	50	30			80	20
G.W. TEAL	19040	1485	830	260	145	2720	680
B.W. TEAL							
SHOVELER							
WOOD DUCK	490	70				70	18
REDHEAD	16925	1120	840	245	220	2425	606
CANVASBACK	107870	6085	5400	2245	1680	15410	3853
RING-NECK	280	30	10			40	10
SCAUP	540085	47300	18620	5605	5630	77155	19289
GOLDENEYE	1365	35	70	30	60	195	49
BUFFLEHEAD	8190	690	450	15	15	1170	293
RUDDY	35245	3050	1265	460	260	5035	1259
OLD SQUAW							
SCOTER							
COMMON MERGANSER	2520	45	45	75	195	360	90
RED BR. MERGANSER	2590		15	135	220	370	93
HOODED MERGANSER	630	25	35	15	15	90	23
TOTAL DUCKS	1324225	82330	47745	30990	28110	189175	47298



DISTRICT: SAVANNA

MONTH: DECEMBER F.Y. 75

WATERFOWL POPULATIONS	DAYS USE	Week ending:	12/14	12/21	12/28	MONTHLY TOTAL	AVERAGE
COOT	140	10	10			20	5
SWAN <i>whistling</i>	21	2	1			3	1
CANADA GOOSE	8575	610	470	115	30	1225	306
WHITE FRONT							
SNOW/BLUE	70	10				10	3
OTHER							
TOTAL GEESE	8645	620	470	115	30	1235	309
MALLARD	295120	16240	12110	9360	4450	42160	10540
BLACK	6895	415	320	160	90	985	246
GADWALL							
WIDGEON							
PINTAIL							
G.W. TEAL	245	35				35	9
B.W. TEAL							
SHOVELER							
WOOD DUCK							
REDHEAD	1330	160	30			190	48
CANVASBACK	3990	430	140			570	143
RING-NECK							
SCAUP	30100	3210	950	140		4300	1075
GOLDENEYE	5670	170	330	220	90	810	203
BUFFLEHEAD	210	15	15			30	8
RUDDY	770	110				110	28
OLD SQUAW							
SCOTER							
COMMON MERGANSER	10955	390	670	410	95	1565	391
RED BR. MERGANSER	3010	240	160	30		430	108
HOODED MERGANSER	105	15				15	4
TOTAL DUCKS	358400	21430	14725	10320	4725	51200	12803



DISTRICT: SAVANNA

MONTH: JANUARY

F.Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending:	1/4	1/11	1/18	1/25	2/1	MONTHLY TOTAL	AVERAGE
COOT	:	:	:	:	:	:	:	:	:
SWAN	:	:	:	:	:	:	:	:	:
CANADA GOOSE	:	:	:	:	:	:	:	:	:
WHITE FRONT	:	:	:	:	:	:	:	:	:
SNOW/BLUE	:	:	:	:	:	:	:	:	:
OTHER	:	:	:	:	:	:	:	:	:
TOTAL GEESE	:	:	30	30	1/18	1/25	2/1	60	12
MALLARD	:	:	1800	600	600	600	600	4200	840
BLACK	:	:	:	:	:	:	:	:	:
GADWALL	:	:	:	:	:	:	:	:	:
WIDGEON	:	:	:	:	:	:	:	:	:
PINTAIL	:	:	:	:	:	:	:	:	:
G.W. TEAL	:	:	:	:	:	:	:	:	:
B.W. TEAL	:	:	:	:	:	:	:	:	:
SHOVELER	:	:	:	:	:	:	:	:	:
WOOD DUCK	:	:	:	:	:	:	:	:	:
REDHEAD	:	:	:	:	:	:	:	:	:
CANVASBACK	:	:	:	:	:	:	:	:	:
RING-NECK	:	:	:	:	:	:	:	:	:
SCAUP	:	:	:	:	:	:	:	:	:
GOLDENEYE	:	:	240	340	340	340	340	1600	320
BUFFLEHEAD	:	:	:	:	:	:	:	:	:
RUDDY	:	:	:	:	:	:	:	:	:
OLD SQUAW	:	:	:	:	:	:	:	:	:
SCOTER	:	:	:	:	:	:	:	:	:
COMMON MERGANSER	:	:	150	450	450	450	450	1950	390
RED BR. MERGANSER	:	:	:	:	:	:	:	:	:
HOODED MERGANSER	:	:	:	:	:	:	:	:	:
TOTAL DUCKS	:	:	2190	1390	1390	1390	1390	7750	1550



DISTRICT: SAVANNA

MONTH: FEBRUARY

F.Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending: 2/8	2/15	2/22	3/1	MONTHLY TOTAL	AVERAGE
COOT	:	:	:	:	:	:	:
SWAN	:	:	:	:	:	:	:
CANADA GOOSE	:	:	:	:	:	:	:
WHITE FRONT	:	1400	40	60	60	200	50
SNOW/BLUE	:	:	:	:	:	:	:
OTHER	:	:	:	:	:	:	:
TOTAL GEESE	:	1400	40	60	60	200	50
MALLARD	:	:	:	:	:	:	:
BLACK	:	17500	600	600	700	2500	625
GADWALL	:	:	:	:	:	:	:
WIDGEON	:	:	:	:	:	:	:
PINTAIL	:	:	:	:	:	:	:
G.W. TEAL	:	:	:	:	:	:	:
B.W. TEAL	:	:	:	:	:	:	:
SHOVELER	:	:	:	:	:	:	:
WOOD DUCK	:	70	:	:	10	10	3
REDHEAD	:	70	:	:	10	10	3
CANVASBACK	:	70	:	:	10	10	3
RING-NECK	:	:	:	:	:	:	:
SCAUP	:	140	:	:	20	20	15
GOLDENEYE	:	10920	340	410	470	1560	390
BUFFLEHEAD	:	:	:	:	:	:	:
RUDDY	:	:	:	:	:	:	:
OLD SQUAW	:	:	:	:	:	:	:
SCOTER	:	:	:	:	:	:	:
COMMON MERGANSER	:	12880	450	450	490	1840	460
RED BR. MERGANSER	:	:	:	:	:	:	:
HOODED MERGANSER	:	:	:	:	:	:	:
TOTAL DUCKS	:	41650	1390	1460	1710	5950	1489



DISTRICT: SAVANNA

MONTH: MARCH

F.Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending: 3/8	3/15	3/22	3/29	MONTHLY TOTAL	AVERAGE
COOT	18970			150	2560	2710	678
SWAN	whistling 28				4	4	1
CANADA GOOSE	18480	60	400	260	1920	2640	660
WHITE FRONT	70				10	10	3
SNOW/BLUE	210				30	30	8
OTHER							
TOTAL GEESE	18740	60	400	260	1960	2680	670
MALLARD	187845	700	1100	1400	23635	26835	6709
BLACK	6685			10	945	955	239
GADWALL	1890			10	260	270	68
WIDGEON	18725			330	2345	2675	669
PINTAIL	30065			520	3775	4295	1074
G.W. TEAL	5950			260	590	850	213
B.W. TEAL	3500			10	490	500	125
SHOVELER	14805			70	2045	2115	529
WOOD DUCK	15120	10	200	630	1320	2160	540
REDHEAD	13230	10	200	460	1220	1890	473
CANVASBACK	76475	10	1160	4735	5020	10925	2731
RING-NECK	14035		40	135	1830	2005	501
SCAUP	559265	140	2670	8320	68765	79895	19974
GOLDENEYE	18865	470	550	750	925	2695	674
BUFFLEHEAD	5530		30	125	635	790	198
RUDDY	4025			60	515	575	144
OLD SQUAW							
SCOTER							
COMMON MERGANSER	24500	520	710	735	1535	3500	875
RED BR. MERGANSER	2205		10	110	195	315	79
HOODED MERGANSER	3815			80	465	545	136
TOTAL DUCKS	1004530	1860	6670	18750	114510	143790	35948



DISTRICT: SAVANNA

MONTH: April

F.Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending: 4/5	4/12	4/19	4/26	5/3	MONTHLY TOTAL	AVERAGE
COOT	274120	4870	7810	9140	10580	6760	39160	7832
SWAN whistling	343	44	4	1			49	10
CANADA GOOSE	13573	1160	490	199	45	45	1939	388
WHITE FRONT								
SNOW/BLUE	210	30					30	6
OTHER								
TOTAL GEESE	13783	1190	490	199	45	45	1969	394
MALLARD	275345	18145	12230	5080	2260	1620	39335	7867
BLACK	12355	870	465	310	90	30	1765	353
GADWALL	70385	780	1445	4755	2305	770	10055	2011
WIDGEON	193620	4620	5215	11925	4550	1350	27660	5532
PINTAIL	51170	4190	2950	140	30		7310	1462
G.W. TEAL	28280	760	1935	1095	210	40	4040	808
B.W. TEAL	81795	1180	2765	4100	2450	1190	11685	2337
SHOVELER	56175	2230	2825	2480	335	155	8025	1605
WOOD DUCK	45710	1560	1370	1200	1200	1200	6530	1306
REDHEAD	32935	1715	1660	1095	205	30	4705	941
CANVASBACK	69825	5645	3190	1065	65	10	9975	1995
RING-NECK	107835	3170	6265	4980	780	210	15405	3081
SCAUP	1196090	61430	47220	38070	17120	7030	170870	34174
GOLDENEYE	12670	1340	335	135			1810	362
BUFFLEHEAD	7630	420	410	260			1090	218
RUDDY	63840	1140	2675	4885	390	30	9120	1824
OLD SQUAW								
SCOTER								
COMMON MERGANSER	14560	1280	740	60			2080	416
RED BR. MERGANSER	4655	365	220	80			665	133
HOODED MERGANSER	10430	410	300	260	260	260	1490	298
TOTAL DUCKS	2335305	111250	94215	81975	32250	13925	333615	66723



DISTRICT: SAVANNA

MONTH:

F.Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending 5/10	5/17	5/24	5/31	MONTHLY	
						TOTAL	AVERAGE
COOT	44800	3600	1100	900	800	6400	1600
SWAN							
CANADA GOOSE	1260	45	45	45	45	180	45
WHITE FRONT							
SNOW/BLUE							
OTHER							
TOTAL GEESE	1260	45	45	45	45	180	45
MALLARD	28000	1240	1060	850	850	4000	1000
BLACK	140	10	10			20	5
GADWALL	3780	420	110	10		540	135
WIDGEON	4970	580	130			710	178
PINTAIL							
G.W. TEAL	70	10				10	3
B.W. TEAL	13650	880	470	300	300	1950	488
SHOVELER	420	30	30			60	15
WOOD DUCK	33600	1200	1200	1200	1200	4800	1200
REDHEAD	210	30				30	8
CANVASBACK							
RING-NECK	420	60				60	15
SCAUP	27090	3240	630			3870	968
GOLDENEYE							
BUFFLEHEAD							
RUDDY							
OLD SQUAW							
SCOTER							
COMMON MERGANSER							
RED BR. MERGANSER							
HOOED MERGANSER	7280	260	260	240	260	1040	260
TOTAL DUCKS	119630	7960	3900	2620	2610	17090	



DISTRICT: SAVANNA

MONTH: JUNE

F.Y. 75

WATERFOWL POPULATIONS	DAYS USE FOR PERIOD	Week ending:							MONTHLY TOTAL	AVERAGE
		6/7	6/14	6/21	6/28					
COOT	22400	800	800	800	800				3200	800
SWAN										
CANADA GOOSE	1260	45	45	45	45				180	45
WHITE FRONT										
SNOW/BLUE										
OTHER										
TOTAL GEESE	1260	45	45	45	45				180	45
MALLARD	23800	850	850	850	850				3400	850
BLACK										
GADWALL										
WIDGEON										
PINTAIL										
G.W. TEAL										
B.W. TEAL	8400	300	300	300	300				1200	300
SHOVELER										
WOOD DUCK	33600	1200	1200	1200	1200				4800	1200
REDHEAD										
CANVASBACK										
RING-NECK										
SCAUP										
GOLDENEYE										
BUFFLEHEAD										
RUDDY										
OLD SQUAW										
SCOTER										
COMMON MERGANSER										
RED BR. MERGANSER										
HOODED MERGANSER	7280	260	260	260	260				1040	260
TOTAL DUCKS	73080	2610	2610	2610	2610				10440	2610



SAVANNA DISTRICT  
93-2527-06-SV0

ACTIVITY NAME

JUL-74 AUG-74 SEP-74 OCT-74 NOV-74 DEC-74 JAN-75 FEB-75 MAR-75 APR-75 MAY-75 JUN-75

12 MONTH  
TOTAL

100-7500-2A2131

WATER TREATMENT PLANT	800	800	200	100	20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</
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EDUCATION

STUDENTS	TEACHERS	PROF. STAFF	STUDENTS	TEACHERS	PROF. STAFF
135	574		2	2	2
			1	3	5
			1	2	5
			1	2	22

SCANNED WITH A FLATBED SCANNER

Scuba Diving in Iceland

DUCK																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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## RECEIVED: NOV-11 1955

13250	14100	7050	5700	150	30	130	9640	11970	61920
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SAVING PRIVATE LIBERTY  
92-27-16-SV

12 MONTH	
TOTAL	
	35590
	71165
	168060
	811175

[illegible][illegible]

	Gold	Oz.	Price	Total
69171	0.001	0.001	\$0.72	\$0.72
69172	0.001	0.001	\$0.72	\$0.72
69173	0.001	0.001	\$0.72	\$0.72
69174	0.001	0.001	\$0.72	\$0.72
69175	0.001	0.001	\$0.72	\$0.72
69176	0.001	0.001	\$0.72	\$0.72
69177	0.001	0.001	\$0.72	\$0.72
69178	0.001	0.001	\$0.72	\$0.72
69179	0.001	0.001	\$0.72	\$0.72
69180	0.001	0.001	\$0.72	\$0.72
69181	0.001	0.001	\$0.72	\$0.72
69182	0.001	0.001	\$0.72	\$0.72
69183	0.001	0.001	\$0.72	\$0.72
69184	0.001	0.001	\$0.72	\$0.72
69185	0.001	0.001	\$0.72	\$0.72
69186	0.001	0.001	\$0.72	\$0.72
69187	0.001	0.001	\$0.72	\$0.72
69188	0.001	0.001	\$0.72	\$0.72
69189	0.001	0.001	\$0.72	\$0.72
69190	0.001	0.001	\$0.72	\$0.72
69191	0.001	0.001	\$0.72	\$0.72
69192	0.001	0.001	\$0.72	\$0.72
69193	0.001	0.001	\$0.72	\$0.72
69194	0.001	0.001	\$0.72	\$0.72
69195	0.001	0.001	\$0.72	\$0.72
69196	0.001	0.001	\$0.72	\$0.72
69197	0.001	0.001	\$0.72	\$0.72
69198	0.001	0.001	\$0.72	\$0.72
69199	0.001	0.001	\$0.72	\$0.72
69200	0.001	0.001	\$0.72	\$0.72

[illegible]

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[illegible]

Year	Value	Year	Value
1870	10730	1870	240
1871	10730	1871	240
1872	10730	1872	240
1873	10730	1873	240
1874	10730	1874	240
1875	10730	1875	240
1876	10730	1876	240
1877	10730	1877	240
1878	10730	1878	240
1879	10730	1879	240
1880	10730	1880	240
1881	10730	1881	240
1882	10730	1882	240
1883	10730	1883	240
1884	10730	1884	240
1885	10730	1885	240
1886	10730	1886	240
1887	10730	1887	240
1888	10730	1888	240
1889	10730	1889	240
1890	10730	1890	240
1891	10730	1891	240
1892	10730	1892	240
1893	10730	1893	240
1894	10730	1894	240
1895	10730	1895	240
1896	10730	1896	240
1897	10730	1897	240
1898	10730	1898	240
1899	10730	1899	240
1900	10730	1900	240

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2
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Year	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1980	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100

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SAVANNA DISTRICT  
03-3527-06-SVD

### THREATENED SPECIES

ENDANGERED

AMERICAN PEREGRINE	FALCON	701	3561	0	14	21	14	49	0	1	10/19
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STATUS-UNDETERMINED

[illegible]

SPECIAL RECOGNITION

EIRUS

[illegible]



NATIONAL WILDLIFE REFUGE SYSTEM  
WILDLIFE USE REPORT  
SPECIAL RECOGNITION SPECIES  
(EXCLUDING WATERFOWL)  
FY-75

SAVANNA DISTRICT  
03-3527-06-SVU

SPECIES NAME	LINE CODE	*****--USE DAYS-----*****										FY-NC. PRODUCED	FY-NO. HARVESTED	FY-PEAK POPULATION	DATE
		JUL-SEP 74	OCT-DEC 74	JAN-MAR 75	APR-JUN 75	FY TOTAL									
RED-TAILED (HARLAN) HAWK	711 3370	4480	4410	4200	5810	18900						0	0	130	04/19
RED-SHOULDERED HAWK	711 3390	0	0	0	140	140						0	0	10	04/19
BROAD-WINGED HAWK	711 3430	770	510	490	2310	4480						0	0	130	04/19
ROUGH-LEGGED HAWK	711 3470	0	280	1890	1820	3990						0	0	80	04/19
BALD EAGLE	711 3520	0	5187	10430	910	16527						0	0	240	01/11
AM. NESTREL (SPARROW HAWK)	711 3600	700	980	490	2800	4970						0	0	80	04/19
SHORT-EARED OWL	711 3670	0	510	910	1085	2905						0	0	15	04/12
BARNED OWL	711 3680	10500	10920	10920	12600	44940						0	0	140	04/12
SCREECH OWL	711 3730	2730	2730	2730	3500	11690						0	0	40	04/19
GREAT HORNED OWL	711 3750	13650	13650	13650	15330	50280						0	0	170	04/12
TOTAL		287931	221718	176309	518672	1374380						585	870		



NATIONAL WILDLIFE REFUGE SYSTEM  
LAND USE INVENTORY REPORT  
FY - 75

SAVANNA DISTRICT  
03-3527-06-SVD

LAND CLASSIFICATION      ACREAGE

I. DETAILED CLASSIFICATIONS

WETLAND TYPES  
INLAND FRESH AREAS  
SEASONAL FLOOD BASIN/FLAT  
SHALLOW FRESH MARSHES  
DEEP FRESH MARSHES  
OPEN FRESH WATER  
OTHER WETLANDS  
RIVERS AND STREAMS  
OTHER WETLANDS

5,685.0  
3,358.0  
8,300.0  
20,012.0  
37.0  
1,725.0

UPLAND TYPES  
CROPLANDS  
NONIRRIGATED - FOT FLOODS  
GRASSLANDS  
NATIVE GRASSLANDS  
NATIVE GRASSLANDS-RESTORED  
GRASSLANDS INTRODUCED  
FORESTLANDS  
COMMERCIAL FORESTS  
NON-COMMERCIAL FORESTS  
OTHER LAND TYPES  
ADMINISTRATIVE  
GENERAL  
TOTAL ACRES

337.0  
100.0  
150.0  
65.0  
700.0  
1,880.0  
150.0  
42,659.0

II. SUMMARY CLASSIFICATIONS

INLAND FRESH AREAS  
OTHER WETLANDS  
WETLAND TYPES  
CROPLANDS  
GRASSLANDS  
FORESTLANDS  
UPLAND TYPES  
ADMINISTRATIVE  
OTHER LAND TYPES

37,555.0  
1,762.0  
39,317.0  
337.0  
315.0  
2,580.0  
3,232.0  
150.0  
150.0



NATIONAL WILDLIFE REFUGE SYSTEM  
WILDLIFE USE REPORT  
(WATERFOWL ONLY)

FY-75

SAVANNA DISTRICT  
03-5527-00-SW

SPECIES NAME	*****USE DAYS*****										FY-NO.	FY-NO.	FY-PEAK
	LINE CODE	JUL-SEP 74	OCT-DEC 74	JAN-MAR 75	APR-JUN 75	FY TOTAL	PRECED	HARVESTED	POPULATION	DATE			
WATERFOWL PRODUCTION													
ANON-OUTPUT SPECIES													
AMERICAN GOOSE	080 2210	0	0	0	0	0	600	0	0				
SPECIAL RECOGNITION													
BIRDS													
AMERICAN GOOSE	711 2210	91500	747870	20340	306960	1166670	0	412	30205	10/15			
WATERFOWL MAINTENANCE													
SWANS													
WHISTLING SWAN	731 1800	0	480	30	300	810	0	0	44	04/05			
GOOSE													
SWAN GOOSE	732 1690	630	14040	240	180	15090	0	25	570	10/05			
WHITE-FRONTED GOOSE	732 1710	0	0	90	0	90	0	0	10	03/29			
CANADA GOOSE	732 1720	17040	37440	21660	14340	90480	0	70	1920	03/15			
DUCKS													
COMMON PEGANSE	733 1290	0	14550	51750	12480	78780	0	0	1535	03/05			
RED-NECKED PEGANSE	733 1300	0	6510	2370	3990	12870	0	0	365	04/05			
HOODED PEGANSE	733 1310	34050	3630	4080	24540	66300	0	0	465	03/15			
MALLARD	733 1320	260190	155580	245220	291510	2352900	0	4214	32940	10/15			
BLACK DUCK	733 1330	13550	54880	7170	10740	85380	0	198	1080	10/10			
SAVONALL	733 1350	2940	13380	2040	64380	82740	0	138	4755	04/10			
AMERICAN WIGEON	733 1370	6000	122130	20070	171300	319500	0	276	11925	04/10			
GREEN-WINGED TEAL	733 1390	31530	122810	6350	24330	155060	0	1398	8510	10/10			
BLUE-WINGED TEAL	733 1400	101490	11610	3750	93750	210600	0	2053	4100	04/15			
NORTHERN SHOVELER	733 1420	1530	4620	15370	48600	76420	0	0	2825	04/10			
PINTAIL	733 1430	11700	73200	32220	43360	160960	0	198	5800	10/05			
WOOD DUCK	733 1440	314400	109020	16290	111180	550690	0	2794	7200	09/15			
REDHEAD	733 1460	0	23100	14280	28470	65050	0	0	1715	04/10			
CAVASBACK	733 1470	0	124550	82720	59850	260820	0	0	6085	11/05			
LESSER SCAUP	733 1490	0	906420	599370	1054260	2560050	0	96	68765	03/10			
RING-NECKED DUCK	733 1500	0	3570	15030	92880	111480	0	138	6265	04/10			
CAYMAN GOLDENEYE	733 1510	0	7800	41520	10860	60180	0	0	1340	04/05			
JOFFLEHEAD	733 1530	0	9270	5940	6540	21750	0	60	690	11/05			
ROBBY LUCK	733 1670	0	46350	4320	54720	105390	0	60	4885	04/15			
TOTAL		886590	4022610	1212060	2530020	8651280	600	12130					







645-30-1050-20  
645-30-1050-20

ACT 105 BY MONTI

# ACTIVITY NAME

01801-2744

1000

0047100

1915

1024 INVESTIGATION

total concentration

THE UNIVERSITY OF CHICAGO

1000

TOTAL ATRO W/O DEGRADATION

TOTAL 100% USE

TOTAL OFFICE ORIENTED

TOTAL 100.00-100.00 OFF ORIENTED

10. VISITS TO REFUG

ACTIVITY NAME	JUN-74	AUG-74	SEP-74	OCT-74	NOV-74	DEC-74	JAN-75	FEB-75	MAR-75	APR-75	MAY-75	JUN-75	12 MONTH TOTAL
DISSEMINATING	26400	26760	12300	7000	200					700	9600	17670	102770
COLLECTING	66160	50760	12600	2000						40	4300	20300	142330
COALTING	124000	150600	94000	51500	15000	1850			1800	45200	93020	117400	705070
WATER SAVING	32300	22500	5500	1500							1700	13460	82150
TOTAL INFORMATION	20200	2000	600	300	30				30	302	1200	1512	8075
TOTAL EDUCATION		2	6	200	661			1	6	5	5	5	1089
TOTAL BUILDING			1000	73552	66613	10400	720	260					153440
TOTAL FURNISHING	303300	312000	117200	81000	48000	57000	38000	42400	33600	69000	157600	194000	1455730
TOTAL OTHER P/W RECREATION	126120	128670	67560	38250	17750	13460	6665	5045	15500	26000	87165	111395	6643630
TOTAL PUBLIC USE	906002	947054	430000	226601	150761	83160	45385	47706	50956	143697	520260	703302	4373564
TOTAL WILDLIFE ORIENTED	431422	443734	187750	102401	133261	80950	45385	47706	49156	95337	246050	307812	2261964
TOTAL WILDLIFE ORIENTED	475540	504220	252570	131200	17000	2210			1800	48260	283210	395400	2111600
NO. VISITS TO REFUGE	199413	140950	90000	66240	25320	19500	12000	13500	16165	31500	87200	124066	818614



# NATIONAL WILDLIFE REFUGE SYSTEM

## WATERFOWL USE DAYS

SAMARIA DISTRICT

92-3527-04-SVN

SPECIES NAME

JUL 1974-  
SEP 1974

OCT 1974-  
DEC 1974

JAN 1975-  
MAR 1975

APR 1975-  
JUN 1975

12 MONTH  
TOTAL

SPECIAL REGISTRATION

BIPED

AMERICAN COOT

WATERFOWL MAINTENANCE

SPACE

WHISTLING SWAN

GRESE

SWAN GOOSE

WHITE-ROOSTED GOOSE

CANADA GOOSE

BIPED

COMMON MEGALOPUS

RED-NECKED MEGALOPUS

WOODEN MEGALOPUS

WALL-RO

BLACK DUCK

GOOSE

AMERICAN MEGALOPUS

RED-NECKED MEGALOPUS (COMMON) TEAL

RED-NECKED TEAL

RED-NECKED SHOVELER

BIPED

BLACK DUCK

RED-NECKED

CANVASBACK

LESSER SCALD

RED-NECKED DUCK

COMMON GOOSE

RED-NECKED

BLACK DUCK

TOTAL SWANS

TOTAL GRESE

TOTAL BIPED

TOTAL WATERFOWL

1,166,670

306,960

20,240

747,870

91,500

430

810

300

30

430

0

15,090

180

240

14,040

620

0

90

0

90

0

0

0

90,480

14,340

21,660

37,440

17,040

0

78,780

12,480

51,750

14,550

0

0

12,870

3,990

7,370

6,510

0

0

66,300

24,540

4,080

3,630

24,050

0

2,352,900

291,510

245,220

1,555,930

260,100

0

85,380

10,740

7,170

53,800

13,500

0

82,740

64,330

2,040

13,330

2,040

0

319,500

171,300

20,770

122,130

6,000

0

195,060

24,330

6,320

122,910

31,530

0

210,600

83,750

7,750

11,610

101,400

0

70,620

43,600

15,870

4,620

1,530

0

160,980

43,860

32,220

73,200

11,700

0

550,890

111,180

16,290

102,020

314,400

0

65,850

28,470

14,280

23,100

0

0

266,820

59,850

82,020

124,050

0

0

2,560,050

1,054,260

599,370

906,420

0

0

111,480

92,880

15,020

3,570

0

0

60,180

10,860

41,520

7,200

0

0

21,750

6,540

5,940

9,270

0

0

105,390

54,720

4,320

45,250

0

0

810

300

30

430

0

0

105,660

14,520

21,990

51,480

17,670

0

7,378,140

2,208,240

1,169,700

3,222,720

777,420

0

8,651,280

2,530,020

1,212,060

4,022,610

886,500

0



NATIONAL WILDLIFE REFUGE SYSTEM  
PEAK MONTHLY WATERFOWL POPULATIONS

SAVANNA DISTRICT

03-3527-06-SVD

SPECIES NAME

JUL 74 AUG 74 SEP 74 OCT 74 NOV 74 DEC 74 JAN 75 FEB 75 MAR 75 APR 75 MAY 75 JUN 75

SPECIAL RECONSTRUCTION

BIPES

AMERICAN COOT

WATERFOWL MAINTENANCE

SWANS

WHISTLING SWAN

GEESE

SPOT GOOSE

WHITE-FRONTED GOOSE

CANADA GOOSE

DUCKS

COMMON Merganser

RED-BREASTED Merganser

HOODED Merganser

MALLARD

BLACK DUCK

CAPRILL

AMERICAN WIGEON

GREEN-WINGED (GINN.) TEAL

BLUE-WINGED TEAL

NORTHERN SHOVELER

PINTAIL

WOOD DUCK

REDHEAD

CANVASBACK

LESSER SCAUP

RING-NECKED DUCK

COMMON GOLDENEYE

BUFFLEHEAD

RUDDY DUCK

TOTAL SWANS

TOTAL GEESE

TOTAL DUCKS

TOTAL WATERFOWL

650	650	3320	30205	2060	10	0	0	2560	10580	3600	800
C	0	0	3	34	2	0	0	4	44	0	0
C	0	45	570	210	10	0	0	30	30	0	0
C	0	0	0	0	0	0	0	10	0	0	0
135	160	420	650	720	610	30	60	1920	1160	45	45
C	0	0	20	155	670	450	490	1535	1290	0	0
C	0	0	50	220	240	0	0	195	365	0	0
360	400	420	280	35	15	0	0	465	410	260	260
1550	3800	5800	32940	21515	16240	1800	700	23635	18145	1240	850
0	200	470	1080	830	415	0	0	945	970	10	0
C	20	130	820	0	0	0	0	260	4755	420	0
C	20	310	7800	100	0	0	0	2345	11925	580	0
100	290	1310	8510	1485	35	0	0	590	1935	10	0
550	1450	2450	950	0	0	0	0	460	4100	880	300
C	0	75	250	0	0	0	0	2045	2925	30	0
C	120	480	5800	50	0	0	0	3775	4190	0	0
2400	2900	7200	5300	70	0	0	10	1320	1560	1200	1200
C	0	0	240	1120	160	0	10	1220	1715	30	0
0	0	0	610	6085	420	0	10	5020	5645	0	0
C	0	0	23410	47300	3210	0	20	68765	61430	3240	0
C	0	0	270	20	0	0	0	1830	6265	60	0
C	0	0	40	70	330	340	470	925	1340	0	0
C	0	0	40	650	15	0	0	635	420	0	0
0	0	0	1160	3050	110	0	0	515	4885	0	0
C	0	0	3	34	2	0	0	4	44	0	0
135	160	465	1220	930	620	30	60	1660	1190	45	45
4960	9200	18655	90050	82845	21870	2590	1710	116510	134060	7960	2610
5095	9360	19120	91273	83809	22492	2620	1770	118474	135294	3005	2655



8/24/75

NATIONAL REFUGEE RELIEF SYSTEM  
NUMBER OF PUBLIC AFFAIRS ACTIVITIES

132

SAVANNA DISTRICT

03-3527-(6-SVD

PUBLIC AFFAIR ACTIVITY NAME	12 MONTH TOTAL											
	JUL-74	AUG-74	SEP-74	OCT-74	NOV-74	DEC-74	JAN-75	FEB-75	MAR-75	APR-75	MAY-75	JUN-75
PUBLIC AFFAIRS	2	1	0	2	1	1	1	1	1	1	2	1
RADIO PROGRAMS	C	0	0	1	0	0	0	0	0	0	0	0
NEWSPAPER ARTICLES												
TOTAL	2	1	0	3	1	1	1	1	1	1	2	1



# NATIONAL WILDLIFE REFUGE SYSTEM

## AVERAGE MONTHLY WATERFOWL POPULATIONS.

SANDHILL DISTRICT

93-2527-07-SWD

SPECIES NAME

JUL 74 AUG 74 SEP 74 OCT 74 NOV 74 DEC 74 JAN 75 FEB 75 MAR 75 APR 75 MAY 75 JUN 75

SPECIAL REPRODUCTION

WINGS

ADULTS ADULT

NATIONAL WILDLIFE REFUGE SYSTEM

STATE

WATERFOWL SPECIES

WINGS

ADULTS ADULT

ADULTS ADULT

ADULTS ADULT

WINGS

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# NATIONAL WILDLIFE REFUGE SYSTEM

## REPORT OF ECONOMIC OUTPUTS - FY 75

(IN DOLLARS)

SAVANNA DISTRICT

03-3527-CO-SVD

TYPE OF BENEFIT	JUL-SEP 74	OCT-DEC 74	JAN-MAR 75	APR-JUN 75	FY TOTAL
REFUGE RECEIPTS					
FOR BEAKERS	0.00	884.50	0.00	0.00	884.50
OTHER RECEIPTS	5.00	300.00	0.00	272.10	577.10
BY COWPRTK, FOR SELF	0.00	0.00	0.00	0.00	0.00
BY COWPRTK, FOR BSEW	0.00	0.00	0.00	0.00	0.00
TOTAL	5.00	1,184.50	0.00	272.10	1,461.60



NATIONAL WILDLIFE REFUGE SYSTEM  
REPORT OF MISCELLANEOUS OUTPUTS  
FY-75

SAVANNA DISTRICT  
C3-3527-06-SVD

TYPE OF OUTPUTS	UNITS	FY TOTAL
PROFESSIONAL SERVICES		
ECOLOGICAL MONITORING BY REFUGEE PERSONNEL BANDING	PROGRAM	11
BY REFUGEE PERSONNEL OTHER COOPERATIVE PROGRAM	PROGRAM	1
	PROGRAM	3
ENVIRONMENTAL PRESERVATION		
OTHER SCIENTIFIC	AREA	1
MISCELLANEOUS WILDLIFE OUTPUTS		
WILDLIFE DIVERSITY SPECIES DONATED	NO. SPECS EA. ANIMAL	458 3



NATIONAL WILDLIFE REFUGE SYSTEM  
WILDLIFE USE REPORT  
WILDLIFE USE REPORT - WATERFOWL  
(USE DAYS, HARVEST, & PRODUCTION)  
FY-75

SPECIES NAME	LINE CODE	*****--USE DAYS-----*****					FY-NO. FY-NO. FY-NO.	FY-NO. FY-NO. FY-NO.	FY-PEAK HARVESTED POPULATION	DATE
		JUL-SEP 74	OCT-DEC 74	JAN-MAR 75	APR-JUN 75	FY TOTAL				
WATERFOWL PRODUCTION	080 2210	0	0	0	0	0	600	0	0	
WATERFOWL PRODUCTION	711 2210	91500	747870	20340	306960	1166670	0	412	30205	10/15
WATERFOWL PRODUCTION	731 1300	0	480	30	300	810	0	0	44	04/05
WATERFOWL PRODUCTION	732 1650	630	14040	240	180	15090	0	25	570	10/05
WATERFOWL PRODUCTION	732 1710	0	0	90	0	90	0	0	10	03/29
WATERFOWL PRODUCTION	732 1720	17040	37440	21660	14340	90480	0	70	1920	03/15
WATERFOWL PRODUCTION	733 1220	0	14550	51750	12480	78780	0	0	1535	03/05
WATERFOWL PRODUCTION	733 1300	0	6510	2370	3990	12870	0	0	365	04/05
WATERFOWL PRODUCTION	733 1310	34050	3630	4080	24540	66300	0	0	435	03/15
WATERFOWL PRODUCTION	733 1320	260190	1555980	245220	291510	2352900	0	4214	32940	13/15
WATERFOWL PRODUCTION	733 1330	13560	53880	7170	10740	85380	0	198	1080	10/10
WATERFOWL PRODUCTION	733 1350	2940	13380	2040	6480	82740	0	138	4755	04/10
WATERFOWL PRODUCTION	733 1370	6000	122130	20070	171300	319500	0	276	11925	04/10
WATERFOWL PRODUCTION	733 1380	31530	122810	6390	24330	155080	0	1398	8510	10/10
WATERFOWL PRODUCTION	733 1400	131490	11610	3750	93750	210800	0	2053	4100	04/10
WATERFOWL PRODUCTION	733 1420	1530	4620	15870	48600	70620	0	0	2825	04/10
WATERFOWL PRODUCTION	733 1430	11700	73230	32220	43860	160980	0	158	5630	10/05
WATERFOWL PRODUCTION	733 1440	314400	109020	16290	111180	550890	0	2794	7200	04/10
WATERFOWL PRODUCTION	733 1460	0	23100	14280	28470	65850	0	0	1715	04/10
WATERFOWL PRODUCTION	733 1470	0	124950	82020	59850	266820	0	0	6035	11/05
WATERFOWL PRODUCTION	733 1490	0	906420	599370	1054260	2560650	0	96	68795	03/10
WATERFOWL PRODUCTION	733 1500	0	3570	15030	92880	111430	0	138	6265	04/10
WATERFOWL PRODUCTION	733 1510	0	7800	41520	10860	60180	0	0	1340	04/05
WATERFOWL PRODUCTION	733 1530	0	9270	5940	6540	21750	0	60	690	11/05
WATERFOWL PRODUCTION	733 1670	0	46350	4320	54720	105390	0	60	4835	04/10

WATER DISTRICT  
007-05-500

SPECIES NAME

WATERFOWL PRODUCTION

WATERFOWL PRODUCTION

WATERFOWL PRODUCTION

WATERFOWL PRODUCTION

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WATERFOWL PRODUCTION



27-66-500 DISTRICT

LIVE CODE	JUL-SEP 74	OCT-DEC 74	USE DAYS	FY-NQ.	FY-NQ.	FY-PEAK
				**--**--*	HARVESTED	POPULATION
					75 FY TOTAL	DATE

AS  
HOLLED PERSGANSER  
HALLAND  
BLUE-WINGED TEAL  
BIRD BOOK